

Human Noggin, Fc Tag, HEK293

Catalog Number	LDG017PHM
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Specifications

Species of Origin

Human

Expression system

HEK293

Affinity Tag

Human IgG1 Fc Tag (C-term)

Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Purity

>98% as determined by SDS-PAGE analysis.

Molecular weight

The protein has a calculated MW of 49.11 kDa. The protein migrates as 58 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to inhibit BMP-4-induced alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <0.05 µg/mL in the presence of 50 ng/mL of recombinant human BMP-4.

Endotoxin level

<0.1 EU per 1 µg of the protein by the LAL method.

Form

Lyophilized

Background

Tainan Headquarter

+886-6-2536677

bd@leadgene.com.tw

Innovation & Research Center

+886-2-27065528

CLD Center

+886-6-2536677

Background

Noggin binds members of the transforming Growth Factors-beta (TGF beta) superfamily signaling proteins, such as bone morphogenetic protein-4 (BMP-4), which inactivates their activities. As an extracellular antagonist of BMP proteins, Noggin involves in the development of many body tissues, including nerve tissue, muscles, and bones. In addition, Noggin is able to inhibit chondrocyte differentiation through its interaction with GDF5.

Sequence Note

Gln28-Cys232

Uniprot ID

Q13253

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration of 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image

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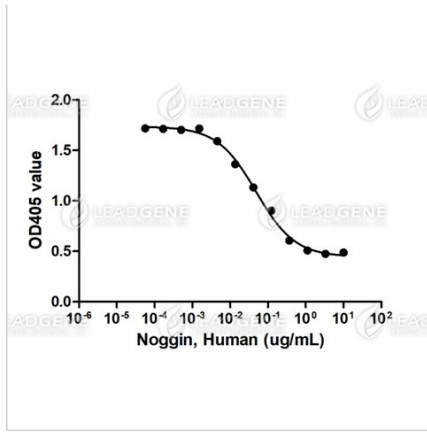
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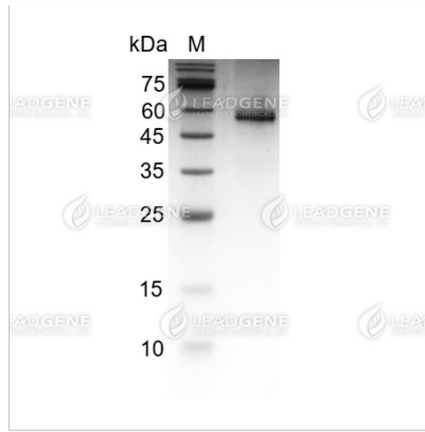
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Human Noggin, Fc Tag, HEK293 (LDG017PHM), inhibits BMP-4-induced alkaline phosphatase production by ATDC5 cells, with an ED50 of <0.05 µg/mL.



SDS-PAGE analysis of recombinant human Noggin

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